



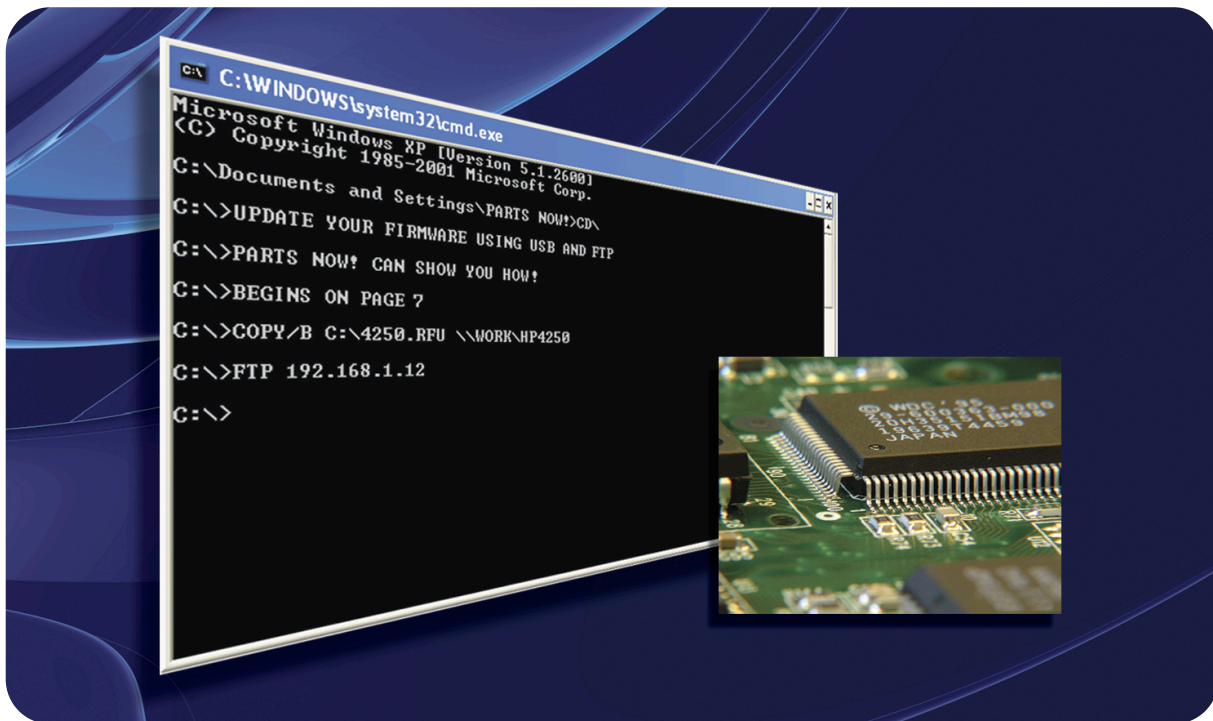
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A PARTS NOW! PUBLICATION

# USB AND FTP FIRMWARE UPDATE PROCEDURES



## Also in this issue:

- Introducing the Web's Smartest Way to Keep Business Printing... Profitably
- How a "Bargain" Printer Can Cost You Much More
- Printer Spotlight: Xerox Phaser 8400/8500/8550/8560 Series

## COMPANY NEWS

# Introducing the Web's Smartest Way to Keep Business Printing... *Profitably*

# COMING THIS OCTOBER!

## www.partsnow.com



Welcome to a whole new Parts Now! website. Whether you want to shop online 24/7, manage core returns, sign up for repair training, or find a fix for a stubborn repair problem, you can do it all and much more right here.

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**PATRICK MCGINN, CHIEF INFORMATION OFFICER**

### Be sure to checkout these powerful new features:

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- Find any part fast – Our new site automatically links outdated part numbers to current ones, so you instantly find the item you want.
- Current and past issues of SERVICE TODAY, filled with technical “how-to’s”, training updates and industry trends – all searchable by publication date, OEM or model.

## Parts Now! Introduces the New HP Color LaserJet 4700 and CP 4005 Online Printer Training

The HP Color LaserJet 4700 and the CP 4005 are set to replace the CLJ 4650 series, widely recognized as one of the most popular in the industry. Already, Parts Now! Managed Print Solutions reports the number of pages printed for the CLJ 4700 have exceeded its predecessor. In response, Parts Now!, the nation's largest trainer of laser printer service technicians, has added HP CLJ 4700 and CP 4005 printer training to prepare office equipment dealers and repair organizations to meet the demand.

"Clearly, the CLJ 4700 series is seeing more prints than the mainstream LJ 4650," says Steve Geishirt, director of printer repair training at Parts Now!. "So we're pleased to offer this new course online. Because the convenience of online printer training means that dealers can ramp up their service with courses that fit every technician's schedule and budget."

Parts Now! has added high-resolution video to its online courses to help printer service technicians

where they need it most: understanding the paper path and printer teardown. The new HP CLJ 4700 and CP 4005 online printer repair courses are the first to offer high-resolution video.

The new HP CLJ 4700 and CP 4005 online printer repair course explains the technology in theory, contains hands-on labs for technicians to conduct at their own location and delivers common break-fix solutions. For more information, please visit [www.partsnow.com](http://www.partsnow.com).

## Training: At-a-Glance

OCTOBER		DESCRIPTION	LOCATION
Monday 12 <sup>th</sup>	\$500	Advanced Level Monochrome Printer Repair for Copier Techs	Exton, PA
Tuesday 13 <sup>th</sup>	\$500	Advanced Level Color Printer Repair for Copier Techs	Exton, PA
Wednesday 14 <sup>th</sup>	\$500	Advanced Level Monochrome Printer Repair for Copier Techs	Exton, PA
Thursday 15 <sup>th</sup>	\$500	Advanced Level Color Printer Repair for Copier Techs	Exton, PA
Monday 12 <sup>th</sup>	\$500	Advanced Level Monochrome Printer Repair for Copier Techs	Hayward, CA
Tuesday 13 <sup>th</sup>	\$500	Advanced Level Color Printer Repair for Copier Techs	Hayward, CA
Wednesday 14 <sup>th</sup>	\$500	Advanced Level Monochrome Printer Repair for Copier Techs	Hayward, CA
Thursday 15 <sup>th</sup>	\$500	Advanced Level Color Printer Repair for Copier Techs	Hayward, CA
Monday 26 <sup>th</sup>	\$500	Advanced Level Monochrome Printer Repair for Copier Techs	Middleton, WI
Tuesday 27 <sup>th</sup>	\$500	Advanced Level Color Printer Repair for Copier Techs	Middleton, WI
NOVEMBER		DESCRIPTION	LOCATION
Monday 2 <sup>nd</sup>	\$374	Lexmark "T" Series T64X, T63X, T62X, T52X	Middleton, WI
Tuesday 3 <sup>rd</sup>	\$399	HP LJ 4200/4250/4300/4350 Series	Middleton, WI
Wednesday 4 <sup>th</sup>	\$399	HP LJ P4015/P4014/P4515 Series	Middleton, WI
Thursday 5 <sup>th</sup>	\$450	HP CLJ 4700/CP4005 Series	Middleton, WI
Friday 6 <sup>th</sup>	\$399	HP LJ 9050/9040/9000 Series	Middleton, WI

# How a “Bargain” Printer Can Cost You Much More

By Etienne St. Yves and Steve Geishirt

## Ever heard the phrase, “penny-wise and pound-foolish”?

It refers to people that are cautious with small amounts of money, but careless with larger amounts. Whoever coined this phrase may as well have been referring to customers who buy bargain printers only to find that over the lifetime of the printer, the cost per page far exceeds that of a premium model. Today's market is flooded with “great deals” on disposable, low-priced printers that are filled with hidden costs. Service providers are constantly plagued by these inexpensive units with limited serviceability. Rather than pay for a service trip, the customer buys another unit at the same price. Why spend \$1,000 or more to buy a business class printer when you can get a new unit for \$200 and simply replace it when it breaks? How can you steer your customer toward the printer that is the best unit for the job, one that is truly pound-wise?

The answer is pretty simple: simple math that is. Take out your calculator and a piece of paper and in minutes, you can show your customers the harm of such a seemingly innocent purchase. We'll show you how to use the manufacturer's specifications and

pricing to compare units and toner costs. By showing your customers the break even point in strictly dollars and sense terms, they'll understand the lifetime cost of a cheap unit exceeds that of a high-performance business class unit.

## Start With the Cost of Toner

Let's start with toner. One very valid argument often missing from the discussion is the hidden cost of toner, or more importantly the cost per page. As units have become less and less expensive – OK, cheaper – the hidden cost has been the toner cost. The low-end printer's toner has been going up and up due to such common practices as starter cartridges, where new units have only about a quarter of a full cartridge and allow the buyer to print some, but then quickly restock with “real” cartridges. Another cause is when low-end printers offer smaller toner cartridges with less toner, but at a higher price. The customer doesn't realize the impact of toner which can cost them over time.

You can show your customer an example of hidden toner costs using the following example.

## Comparison of the HP LaserJet P1505 to the LaserJet P4015

The P1505 costs \$199 on HP's website, while the P4015 is \$1,199 for a difference of \$1,000.

The P1505 toner cartridge is CB436A and is listed on HP's website at \$77.99 it should yield 2,000 pages according to the specifications. Divide \$77.99 by 2,000 pages and get \$0.039 for the cost of each page printed.

The P4015 toner cartridge is CB364A (standard yield) and is listed on HP's website at \$172.99. It should yield 10,000 pages according to the specifications. Divide \$172.99 by 10,000 pages and you get \$0.0173 for the cost of each page printed.

The difference is more than 2:1 in cost per page even though the P1505 toner cartridge is less expensive as a whole unit. Now comes the tricky part. To do an apples-to-apples comparison you need to compare pages printed per month as an equal number. Thus we go to the P1505 specifications and see the “recommended monthly print volume” is 250 – 2000 pages per month (this can be found on the specifications

sheet). We chose the higher number to get a better balance between a lower-end and mid-level model – thus 2,000 pages. Note, the higher the number of pages per month, the greater the cost difference, thus the shorter time to break even.

If we compare the cost savings per month – assume each unit will produce 2,000 printed pages (a conservative number for the customer), we arrive at a savings of \$43.40 per month with the mid-level model.

**P1505: 2000 pages x \$0.039 = \$78.00**  
**P4015: 2000 pages x \$0.0173 = \$34.60**  
**Monthly savings = \$43.40**

#### **Add in the Cost of Service**

Let's now tack on service costs. A P4015 needs a maintenance kit every 225,000 prints according to the service manual. So in 2 years time, at 2,000 prints a month, the customer has printed 48,000 pages or almost ¼<sup>th</sup> the maintenance kit life. Meanwhile the P1505, which doesn't have a rated maintenance life, may have had basic service parts replaced at this point, items such as the fuser, transfer roller, pickup roller and separation pad. The prices vary depending on what's replaced but assume a \$100 service charge and parts – it's a throw-away unit. Not many people would put \$150 into a \$199 unit unless they have a bunch of toner

stocked on the shelf or maybe they are just really attached to the printer emotionally. Instead, I see these low end units coupled into a service contract. Under these circumstances, it's clearly wiser to use a business class unit.

#### **And It's Even Better with Color**

While the case for the monochrome printer appears somewhat challenging, the case on a low-end color vs. business class printer is more obvious yet. Let's compare the low-end CLJ CP1210 to the business class, industrious CLJ 4700. We now have 4 toner cartridges to compare instead of 1 – CYMK, so the equation is a little more complex.

The CP1210 is \$149 and prints in 12 ppm in monochrome and 8 ppm in color (low-end means lower speed print). While the 31 ppm in color and monochrome CLJ 4700 is \$1,349 making the difference in price \$1,200. That's a lot of money, right?

The CP1210 toner cartridges are CB540A, CB541A, CB542A and CB543A. The color cartridges cost \$71.99 each and should yield 1,400 pages each, while the black toner cartridge is \$77.99 and yields 2,200 pages, according to the specifications. We will take a 20% coverage to keep our apples-to-apples comparison or 5% coverage per color. They'll be printing the same materials on

either printer it wouldn't matter, this just gives us a good comparison. Now, we divide \$77.99 by 2,200 pages for the black and get \$0.0355 for the cost of each page printed (slightly better than the P1505 – interesting). Then we divide the color cartridges at \$71.99 by 1,400 pages to get \$0.0514. Multiply \$0.0514 x 3 color cartridges = \$0.1543 and add the black toner cartridge at \$0.0355 and we get a cost per page of \$0.1897 or just about 19¢ per page – wow!

Doing the same for the CLJ 4700, we have the toner cartridges Q5950A, Q5951A, Q5952A and Q5953A. The color cartridges cost \$282.99 each and should yield 10,000 pages while the black toner cartridge is \$198.99 and should yield 11,000 pages, according to specifications. We will again take a 20% coverage for our apples-to-apples comparison. Now we divide \$198.99 by 11,000 pages for the black and we get \$0.0181 for the cost of each page printed. We do the same for the color cartridges, \$282.99 divided by 10,000 pages and get \$0.0283 each. Multiply \$0.0283 x 3 color cartridges and we get \$0.0849 and add the black toner cartridge at \$0.0181 and we get a cost per page of \$0.1030 or slightly over 10¢ per page – a 9¢ difference.

The recommended monthly print volume on the CP1210 is



250 – 1000 pages per month. Let's take the 1,000 pages to be fair to the CLJ 4700 (which is rated for 3,000 – 10,000 pages per month).

Doing the math and assuming each unit will produce 1,000 printed pages per month, the savings are \$86.70 per month.

**CP 1210 – 1,000 pgs x \$0.1897 = \$189.70**  
**CLJ 4700 – 1,000 pgs x \$0.1030 = \$103.00**  
**Monthly savings = \$86.70**

The \$1,200 price difference divided by \$86.70 per month in the printing difference equates to 13.8 months or just over a year. Thus one year later, they have paid for a CLJ 4700 when they thought they had the "best" deal. Add in printer maintenance, and once again they probably bought a CLJ 4700 six or eight months after they thought they were saving a bunch of money. Most customers suspect the "cheap" units cost them more in toner or ink. However, they don't know *how* much more. Tag on any service, knowing a lower end unit will need service far sooner than a business class unit, and it makes even more sense. You can do the calculations yourself by finding the specs on the units and prices for toners. We used the prices of the units and toner off the HP site on August 14th, 2009 for comparison. The cartridge and

monthly print volume ratings we used come right off the specifications sheet or from the specifications off the product web page. We find many people are buying the cheap units then using them like business class machines and then just throwing them away when they break, mistakenly thinking they are coming out ahead. While they may believe they are ahead of the game, they're really far behind. That's where you come in to help show them the value. When you show a customer the value, they in turn value your partnership.

*"I wanted to thank Bill Voelker for his Service Today article on the LJ 4345 swingplate assembly. He saved me many extra hours figuring out how that machine comes apart. Thanks, Bill, and the rest of you techs for helping guys like me."*

**JOHN FRYER**  
**LEVERE BUSINESS PRODUCTS**  
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**C8543X-MICR-PN**  
**Q7551X-MICR-PN**  
**Q7553A-MICR-PN**  
**C8061X-MICR-PN**  
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# USB and FTP Firmware Update Procedures

By Aaron Caspary

## Before you begin:

The following instructions will guide you through the update of your printer's firmware. If this is the first time you've ever updated firmware, please do the following first:

- Set aside enough time to read this article in its entirety before you begin.
- Read the "ReadMe" file from start to finish once it is unzipped.
- Clear any updates with your IT department first!

Once you've performed these valuable steps you are ready to update your firmware.

## Downloading the Firmware File:

1. Go to [www.hp.com](http://www.hp.com).
2. Choose the "Support & Drivers" tab.
3. Next choose "Download drivers and software (and firmware)".
4. Where it says "Enter product name/number," type the machine name or model number and press enter.
5. This takes you to a list of all the models for this printer.
6. Select the appropriate model.
7. Next you will see a list of operating systems; at the bottom of this list it will display "Cross Operating System (BIOS, firmware, Diagnostics, etc.)".
8. Select this option to bring you to the page to download the firmware (it lists 3 choices): Windows, UNIX or Mac. Some machines may have the HP Easy Firmware Upgrade Utility for Windows only. Choose the proper file for the Operating system in use. For this article, we are using a Windows-based PC, so we will download the Windows version.
9. Once the file has been downloaded, you will want to run the file. It will unzip to a specified place in your hard drive. Example: C:\Program Files\Hewlett-Packard.

## Simplifying the File Path:

To make this process easier, given the need to reference the complete file path in this procedure, we are going to use the following steps:

1. Open the folder on the C: drive where the files were saved to by the unzipping program (WinZip is the most common application used for this purpose).
  2. Once you have located these files, there should be two files in the folder: Readme.txt and FileName.RFU.
  3. Open another window for the C:\ drive.
  4. Move only the .RFU file directly into the C: drive by cutting and pasting or dragging and dropping the RFU file into the C: drive.
  5. Rename the .RFU filename to something that is easier to remember by right-clicking on the file and choosing "Rename" from the list, or by clicking on an already preselected file.
  6. Pick a name that is easy to remember such as "4015.rfu" (Remember that DOS has a restriction of 8 characters for the filename, plus the file extension).
- Next, choose either the USB or the FTP update method, depending upon how your printer is connected to the computer or network.



**SERVICE TODAY**

### EDITOR

➤ Larry Nelson

### CONTRIBUTING WRITERS

➤ Aaron Caspary ➤ Anna Schryver ➤ Etienne St. Yves ➤ Steve Geishirt

➤ Jim Bethke

Service Today is a Parts Now! publication with a mission to serve as a technical resource for printer repair technicians.



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## USB UPDATE PROCEDURE

### Updating Firmware Through the USB Port (Printer is in a Ready state)

To perform the firmware update through the USB port, please follow the steps in both the "Downloading the Firmware File", as well as "Simplifying the File Path" described earlier.

- Do not attempt a firmware upgrade if your area is currently experiencing frequent power outages.
- Inform all users not to send print jobs during the upgrade.
- Experience with DOS is recommended.
- Hook up the printer using a USB cable.
- Ensure the print driver is installed and working on the computer.
- Restart the computer.
- Close down any programs that are running in the background.
- Ensure you have the following information from your computer:

#### **The computer name**

- Click on the "Start" button.
- Go to "Settings" and choose "Control Panel".
- Choose "System" and then click on the tab

labeled "Computer Name".

- Write down exactly what is to the right of the "Full Computer Name" line.

#### **The printer name**

- From "Control Panel," locate the "Printers and Faxes" icon.
- Right click on the printer you want to upgrade, and choose "Properties" from the list.
- From the printer properties screen, select the "Sharing" tab.
- Choose "Share This Printer" in order to allow the upgrade.
- Enter a "Share Name" that is easy to remember then immediately write it down.

*\*\* It is important to note that if anything prevents the firmware update from completing – such as a cable coming unplugged, a power outage, or "Blue Screen of Death" on the computer – it could cause more harm than intended. If for any reason the upgrade is unable to complete, there is a chance that the printer may not be able to recover and a firmware DIMM, or a Formatter, may need to be replaced (depending on model). \*\**

### USB Update Method:

Open up a Command prompt.

- ✓ **Windows XP:** From the Start Menu, select "Run", and type in "CMD" and press "Enter."
- ✓ **Windows Vista:** From the Start Menu, enter "CMD" where it says "Start Search" and press "Enter."

A DOS window will appear.

- Navigate to the root directory by typing "CD\" and pressing "Enter."
- Type in the command exactly as it is listed below.

**C:\>Copy/B C:\Firmware.rfu \\[Computer Name]\[Printer Name]**

Assume that the following is true:

- ✓ RFU File location = C:\4250.rfu
- ✓ Computer Name = Work
- ✓ Printer Name HP4250

For this set of information the command would look as follows:

**C:\>Copy/B C:\4250.rfu \\Work\HP4250**

- Next press the "Enter" key.
- The printer should say "Receiving Update", and eventually should restart on its own.

Once the printer comes back up to ready, print a configuration page to verify that the upgrade was successful by checking the firmware revision number listed under "Printer Information." You now have the necessary USB firmware version.



## FTP UPDATE PROCEDURE

### Updating Firmware Using FTP Protocol

Depending on the revision of the FTP firmware update you are doing, you may have to follow both the "Downloading the Firmware File" and the "Simplifying the File Path" described earlier. "FTP Update Method 1" only required "Downloading the Firmware File," whereas "FTP Update Method 2" will require following both steps because the update is done using DOS.

#### Before you begin:

- Inform all users not to print to the printer while you are doing the firmware upgrade.
- Make sure the printer is in a ready state.
- Verify the Ethernet connections are properly connected.
- Restart your computer and close any unused programs running in the background on the computer.
- Turn off the OS embedded and any software firewalls – these will block the update from going through the network – the hardware firewalls should never need to be taken down.

#### About Firewalls:

Prior to turning off firewalls, discuss the changes with the IT department involved. Please know that turning off firewalls can leave a computer open to malicious attacks and computer viruses, and are done at your own risk.

A firewall is essentially a filter that blocks unwanted Internet traffic from reaching the network and computers, while still allowing outward communication with the Intranet/Internet. Most networks have multiple firewalls, and the firewalls can be implemented in various forms, which are listed below:

##### Internet Provider Firewall

- Cannot be turned off.

##### Hardware Firewalls

- Embedded in the network hardware (Router/Web Servers).
- These should not need to be disabled in order for the firmware update to work:

##### (Personal firewall) 3rd party/Software firewalls

- Must be turned off to perform upgrade.
- Protects at the computer level.
- A program that runs in the background of a computer.

- Filters certain network activity, and will prompt you to allow or deny access to the network upon any new or unrecognized network requests.
- These can usually be turned off by opening the program and switching off the firewall.

##### (Personal Firewall) Operating System Embedded

- Must be turned off to perform upgrade.
- Protects at the computer level.
- Windows XP and Vista have an embedded firewall that is turned on by default.

Depending on your OS follow the instructions below:

##### Windows XP

1. Right click on "My Network Places" and choose "Properties".
2. Right click on "Local Area Connections" and choose "Properties".
3. Select the "Advanced" tab, and select "Settings".
4. In the "General" tab select "Off (not recommended)" and press "OK" or "Apply" to save the setting.

##### Windows Vista

1. Open the "Control Panel".
2. Select "Network and Sharing Center".
3. At the bottom left corner of the window, choose "Windows Firewall".
4. Find the "Windows Firewall" setting and choose "Change Settings". Select "Off (not recommended)" and press "OK" or "Apply" to save the setting.

*\*\* Please note that if you follow these instructions and if for some reason they do not work as described, consult the IT Department. FTP communication intra-network may be considered malicious activity and many Network Administrators block this type of communication on their networks.*

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### FTP Update Method 1 (approximate processing time of 3 to 4 minutes):

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1. Follow the instructions at the beginning of this article titled "Downloading the Firmware File".
2. Locate the folder where the program used to unzip the file put the RFU file.
3. Open a windows Internet browser.
4. In the address bar or Internet Explorer, type in the printer's IP address and press the Enter key (for this article we will be using 192.168.1.12).
5. The address bar should now read:  
"http://192.168.1.12/hp/device/this.LCDispatcher", the information in red doesn't always appear, and will need to be removed for the next steps.
6. Replace http://192.168.1.12 with ftp://192.168.1.12.
7. Delete anything after the IP address, and press "Enter."
8. The page should display a "Ports 1" folder. If this does not happen, it will probably display instructions telling you to select the "Page" button and choose "Open FTP Site in Windows Explorer".
9. Locate and open the folder with the RFU file.
10. Drag and drop the RFU file anywhere into the internet browser, and the update should begin automatically.
11. The printer's display should read "Receiving Upgrade".
12. Once the upgrade is complete the printer will restart automatically on its own.

---

### FTP Update Method 2 (approximate processing time of 3 to 4 minutes):

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Because we are using DOS for this procedure, it is necessary to follow both the "Downloading the Firmware File" as well as the "Simplifying the File Path" instructions at the beginning of this article.

---

### Open a Command prompt:

---

- **Windows XP:** Open the "Start" menu, select "Run", and type in "CMD" and press "Enter."
  - **Windows Vista:** Open the Start Menu, enter "CMD" where it says "Start Search" and press "Enter."
1. Type CD\, to get to the root directory.
  2. Type the following command "FTP (IP Address)" (You can get the IP address off of a network configuration page).  
An example of the full command:  
**C:\>FTP 192.168.1.12**
  3. It will prompt you for a Username and Password. Leave them blank and press the "Enter" key for each.
  4. It will scroll through some command lines, after it finishes you should have a prompt that shows "ftp>" after this type "PUT" and then the file location, and the complete file path. It should look like this:  
**Ftp>PUT C:\FRED.RFU**
  5. The printer's display should read "Receiving Upgrade".
  6. Once the upgrade is complete the printer will restart automatically, on its own.

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### Troubleshooting in DOS:

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If you are using DOS to send the firmware update and you get an error, here are some quick tips:

- If you get a "Syntax Error", Check the use of your "\" and "/", if the wrong context is used, it will prevent DOS from recognizing the command.
- Remember the 8.3 rule. File names as well as folders cannot be more than 8 characters long, plus a 3 character extension.
- DOS does not like long extensions. Follow the instructions and shorten up the file name as well as the path. It is easier to just put the file in the C: Drive.
- Watch extra spaces, DOS does not like them. The sample has the correct number of spaces.  
C:\Copy\B\C:\4250.rfu\\\\\\Work\HP4250  
C:\>FTP 192.168.1.12  
Ftp>PUT C:\4250.RFU

If you encounter additional problems, please contact your IT Department.

## Xerox Phaser 8400/8500/8550/8560 Series

Model Name	Phaser 8400	Phaser 8500/8550	Phaser 8560
<b>Model Number</b>	8400N/8400B/8400BD/ 8400DP/8400DX	8500N/8500DN/8550DP/ 8550DT/8550DX	8560N/8560DN/ 8560DT/8560DX
<b>Release Date</b>	Jan 04	Jun 05	
<b>Print Speed</b>	24 ppm	24 ppm(8500) 30ppm(8550)	30 ppm
<b>Max DPI</b>	600	600	600
<b>Duty Cycle</b>	85,000 pgs/month	85,000 pgs/month	85,000 pgs/month
<b>Memory std/max</b>	128MB/256MB(B/N) 256MB/512MB(P/DX)	512MB/1GB(DX) 128MB/512MB(N/DN) 256MB/1GB(DP/DT)	256MB/1GB(N/DN) 512MB/1GB(DT/DX)
<b>Printhead</b>	046K00530	046K00530	017K04540
<b>Drum Assembly</b>	020K15090	020K15090	020K15090
<b>Transfix Roller</b>	022E32290	022E32290	022E32290
<b>Pickup &amp; Sep Roller Kit</b>	604K42200	604K42200	604K42200
<b>Maintenance Kit</b>	108R00603 (30k pgs) 108R00676 (30k pgs)	108R00675 (10k pgs) 108R00676 (30k pgs)	108R00675 (10k pgs)
<b>Preheater and Deskew Assembly</b>	119641980	126E02721	126E02721
<b>Solid Ink Sticks Black</b>	108R00604 (3 sticks) 108R00608 (6 sticks)	108R00690 (1 stick) 108R00668 (3 sticks) 108R00672 (6 sticks)	108R00726 (3 sticks)
<b>Cyan</b>	108R00723 (3 sticks)	108R00687 (1 stick) 108R00668 (3 sticks)	108R00723 (3 sticks)
<b>Yellow</b>	108R00607 (3 sticks)	108R00689 (1 stick) 108R00671 (3 sticks)	108R00725 (3 sticks)
<b>Magenta</b>	108R00606 (3 sticks)	108R00688 (1 stick) 108R00670 (3 sticks)	108R00724 (3 sticks)
<b>Rainbow Pack</b>	108R00612	N/A	058K00220
<b>Service Manual</b>	701P27910	701P27910	701P27910

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### **The Now! Team**

800.886.6688, ext 4100

[nowteam@partsnow.com](mailto:nowteam@partsnow.com)

### **Technical Support**

800.886.6688, ext 1523

[tsupport@partsnow.com](mailto:tsupport@partsnow.com)

### **Service Technician Training**

800.886.6688, ext 1127

[trainingsupport@partsnow.com](mailto:trainingsupport@partsnow.com)

### **Managed Print Solutions**

800.886.6688, ext 1127

[mps@partsnow.com](mailto:mps@partsnow.com)

### **Core Buy Back**

[cores@partsnow.com](mailto:cores@partsnow.com)

### **Canada Sales**

877.246.2133, ext 1362

[canadasales@partsnow.com](mailto:canadasales@partsnow.com)

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### **US Headquarters**

Parts Now!  
3150 Pleasant View Rd  
Middleton, WI 53562  
Local: 608.203.1500  
Toll-free: 800.886.6688  
Fax: 608.203.1460

### **US West Coast**

Parts Now!  
21053 Alexander Court, Unit B  
Hayward, CA 94545  
Toll-free: 800.886.6688  
Fax: 510.785.9611

### **Canada**

Parts Now! Canada  
32 rue Richelieu, Canada  
Lacolle, Quebec JOJ 1J0  
Local: 450.246.2133  
Toll-free: 877.246.2133  
Fax: 450.246.2913

### **Canada West Coast**

21000 Westminster, Hwy. #2130  
Richmond, B.C. V6V 2S9, Canada  
Local: 450.246.2133  
Toll-free: 877.246.2133  
Fax: 604.303.7441

